DATA ANALYSIS BOOTCAMP

PYHON REVIEW

WHAT IS PYTHON?

- **Startes in the late 80's**

- **Intended to be easy to teach but also of industrial strength**

- **Open-source**

- **Top 10 most widely used Programming Language**

The name is given as a tribute to British Comedy Group Monty Python

WHY PYTHON?

WHAT ARE THE MAIN USE CASES?

- **Data Analysis & visualization**

- **Application Development**

- **Mathematics & Research**

- **System Scripting**

AND COUNTING!

PYTHON CHEAT SHEET

Comparison Operators

Operator	Name	Example
==	Equal	x == y
!=	Not equal	x != y
>	Greater than	x > y
<	Less than	x < y
>=	Greater than or equal to	x >= y
<=	Less than or equal to	x <= y

Logical Operators

Operator	Description	Example
and	Returns True if both statements are true	x < 5 and x < 10
or	Returns True if one of the statements is true	x < 5 or x < 4
not	Reverse the result, returns False if the result is true	not(x < 5 and x < 10)

PYTHON CHEAT SHEET

Membership Operators

Operator	Description	Example
in	Returns True if a sequence with the specified value is present in the object	x in y
not in	Returns True if a sequence with the specified value is not present in the object	x not in y

Identity Operators

Operator	Description	Example
is	Returns true if both variables are the same object	x is y
is not	Returns true if both variables are not the same object	x is not y

PYTHON CHEAT SHEET

Conditional Statements

```
a = 200
b = 33
if b > a:
  print("b is greater than a")
elif a == b:
  print("a and b are equal")
else:
  print("a is greater than b")
```

if <condition> :

      Write actions you want to happen

elif <another condition>:

      Write actions you want to happen

else:
      Write actions you want to happen

USEFUL RESOURCES

PYTHON DOCUMENTATION:

- HTTPS://WWW.SCIPY.ORG/
- HTTPS://DOCS.PYTHON.ORG/3/

STACK OVERFLOW - HTTPS://STACKOVERFLOW.COM/

BLOGS/FORUMS

- TOWARDS DATA SCIENCE
- GEEKSFORGEEKS
- DATASCIENCE CENTRAL
- HTTPS://WWW.YOUTUBE.COM/USER/SENTDEX
- HTTPS://WWW.YOUTUBE.COM/USER/SCHAFER5

ANY QUESTIONS ?